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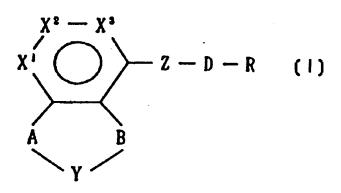
国際調査報告書

(54) Title: FUSED HETEROCYCLIC COMPOUNDS AND MEDICINAL USES THEREOF

(54)発明の名称 縮合ヘテロ環化合物およびその医薬用途

## (57) Abstract

Fused heterocyclic compounds represented by general formula (I), optical isomers or pharmaceutically acceptable salts thereof, medicinal compositions comprising these compounds and pharmaceutically acceptable additives, and drugs comprising these compounds. These compounds exert more potent blocking effects on D4 receptors than on D<sub>2</sub> receptors. Moreover, they have high affinities for receptors other than dopamine receptors such as muscarine M1, serotonin-2 (5-HT<sub>2</sub>) and adrenalin  $\alpha_1$  and  $\alpha_2$ receptors. Thus, these compounds are efficacious against not only positive symptoms typified by hallucination and delusion characteristic of the acute stage of



schizophrenia but also negative symptoms such as emotional torpidity, abulia and autism. In addition, they are useful as antipsychotic agents with relieved side effects such as extrapyramidal symptoms and abnormal internal secretion observed in association with the administration of the conventional antipsychotic agents having only D<sub>2</sub> receptor antagonism. The above compounds are usable as remedies for diseases such as schizophrenia.